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GOVERNOR



HAROLD LEGGETT, Ph.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20090001
Agency Interest No. 5565

Mr. Larry G. Bayer
Director, Operations
Williams Olefins LLC
PO Box 470
Geismar, LA 70734

RE: Part 70 Operating Permit Modification, Williams Olefins LLC - Geismar Ethylene Plant
Williams Olefins LLC, Geismar, Ascension Parish, Louisiana

Dear Mr. Larry G. Bayer:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 15th of August, 2013, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2009.

Permit No.: 0180-00029-V9

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary

CSN:pgb
c: EPA Region VI

**AIR PERMIT BRIFING SHEET
AIR PERMIT DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Williams Olefins LLC – Geismar Ethylene Plant
Agency Interest No.:5565
Geismar, Ascension Parish, Louisiana**

I. Background

Williams Olefins LLC, Williams Olefins LLC - Geismar Ethylene Plant, an existing ethylene production facility began operation in 1968. The Williams Olefins LLC - Geismar Ethylene Plant currently operates under Permit No. 0180-00029-V8, issued August 15, 2008.

This is the Part 70 operating permit modification for the facility.

II. Origin

A permit application and Emission Inventory Questionnaire were submitted by Williams Olefins LLC on January 22, 2009 requesting a Part 70 operating permit modification. Additional information dated May 11, 2009 was also received.

III. Description

Williams Olefins produces ethylene and other hydrocarbon products by the thermal reaction of ethane and propane feed stock in cracking furnaces. Effluent gas from the furnaces is processed through a continuous integrated equipment train to refine and fractionate the mixed hydrocarbon stream into final products. Fuel used in all heaters and boilers is a combination of process off gas and pipeline natural gas.

Williams proposes to modify the permit as follows:

Replace an existing Olefins Utility Boiler with a new package boiler unit. The new unit will be designated as Olefins Utility Boiler F, Emission Point Number 11, and will replace either Boiler A (Emission Point 45A) or Boiler B (Emission Point 45B). A determination as to which existing boiler will be retained will be made following an engineering study. It is anticipated that the new Boiler F will be installed in the same location as the existing boiler that will be permanently shutdown and removed. It is expected that some of the existing auxiliary equipment such as the foundation, fuel lines, and steam lines will be utilized for the new boiler.

Boiler F will be designed to produce 160,000 pounds of steam per hour with a Maximum Heat Input of 232 MMBTU/hr. The boiler furnace will be designed for High Heat Release. The boiler will be fired on Plant Fuel Gas which is comprised of process produced fuel, essentially Methane and Hydrogen, augmented by pipeline Natural Gas. A low NO_x burner system along with Flue Gas Recirculation will be utilized to reduce NO_x emissions.

All of the existing plant Utility Boilers (A, B, D and E) operate interchangeably under a federally enforceable emissions cap (CAP1) which limits the maximum heat input to the boilers in any twelve consecutive months. It is proposed that the new Boiler F be installed under the existing CAP1 limit. Therefore, there will be no increase in permitted emissions from the facility as a result of this project.

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The proposed changes in permitted emissions are shown below. The small increase in permitted emissions is due to the inclusion of the group of existing diesel engines as limited by a new emissions cap (CAP3).

Williams Olefins will submit a modification application to LDEQ after engineering study regarding removal of existing boiler. Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	146.36	146.98	+0.62
SO ₂	157.44	158.02	+0.58
NO _x	928.51	937.33	+8.82
CO	459.65	461.55	+1.90
VOC *	274.62	275.34	+0.72

***VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

<u>Pollutant</u>	<u>Emission Rate(tons/yr)</u>
Benzene	7.53
Butadiene	5.20
Ethylbenzene	0.18
Methanol	1.42
Napthalene	0.43
Stylene	0.96
Toluene	1.52
Xylene	0.26
Total	17.60

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70 and the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP). Compliance Assurance Monitoring (CAM) and Prevention of Significant Deterioration (PSD) do not apply.

This facility is a minor source of toxic air pollutants (TAPs), but is subject to LAC 33:III.5105.A. 1, 3,4, and 5113 as required by LAC 33:III.5101.B.

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V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <<date>>; and in the Daily Iberian, 926 E. Main Street, New Iberia, on <<date>>.. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <<date>>. The draft permit was also submitted to US EPA Region VI on <<date>>. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Emissions associated with the proposed modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

Dispersion Model(s) Used: None

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
-	-	-	-

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VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates - tons				
		PM ₁₀	SO ₂	NO _x	CO	VOC
N/A						

IX. Insignificant Activities

ID	Description	Citation
31	7.6 MMBTU/hr Dryer Regeneration Heater 301	LAC 33:III.501.B.5.A.1.
32	0.9 MMBTU/hr Converter Regeneration Heater 401	LAC 33:III.501.B.5.A.5.
-	1.8 MMBTU/hr Admin Building Boiler	LAC 33:III.501.B.5.A.1.
86	Propylene Tank Car Loading	LAC 33:III.501.B.5.D.
-	≤ 500 gal Seven Diesel Fuel Storage Tanks	LAC 33:III.501.B.5.A.3.
-	25000 gallons Injection Oil Storage -Railcar	LAC 33:III.501.B.5.D.
-	Diesel Fuel Delivery Truck	LAC 33:III.501.B.5.A.3.
-	Laboratory Equipment/Vents	LAC 33:III.501.B.5.A.6.
-	Process Stream Analyzer Vents	LAC 33:III.501.B.5.A.9.
-	500 gal Inhibitor Storage Tank	LAC 33:III.501.B.5.A.3.
-	Temporary Cooling Tower	LAC 33:III.501.B.5.A.12.

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Williams Olefins LLC – Geismar Ethylene Plant
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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5 ^A	509	9	11	13	15	2103	2104*	2107	2113	2115	2122	2153	22	29*	51*	53*	56	59*
UNF0001	Entire Facility			1							1						1			1
ARE0001	63-Converter Regeneration Vent											2								
EQT0004	1-Olefins Cracking Heater 100			1	1	3									1					
EQT0005	3-Olefins Cracking Heater 99			1	1	3									1					
EQT0006	4-Olefins Utility Boiler D			1	1	3									1					
EQT0007	5-Olefins Cracking Heater 98			1	1	3									1					
EQT0008	6-Olefins Cracking Heater 97			1	1	3									1					
EQT0009	8-Olefins Utility Boiler E			1	1	3									1					
EQT0010	33A-Olefins Cracking Heater 101			1	1	3									1					
EQT0011	20-Olefins Plant Flare			1	1	3									3					
EQT0012	33B-Olefins Cracking Heater 102			1	1	3									1					
EQT0013	34A-Olefins Cracking Heater 103			1	1	3									1					
EQT0014	34B-Olefins Cracking Heater 104			1	1	3									1					
EQT0015	35A-Olefins Cracking Heater 105			1	1	3									1					
EQT0016	35B-Olefins Cracking Heater 106			1	1	3									1					
EQT0017	36A-Olefins Cracking Heater 107			1	1	3									1					

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ID No.:	Description	LAC 33:III. Chapter																		
		5 ^A	509	9	11	13	15	2103	2104*	2107	2113	2115	2122	2153	22	29*	51*	53*	56	59*
EQT0018	36B-Olefins Cracking Heater 108				1	1	3								1					
EQT0019	41-Olefins Cracking Heater 109				1	1	3								1					
EQT0021	45A-Olefins Utility Boiler A				1	1	3								1					
EQT0023	45B-Olefins Utility Boiler B				1	1	3								1					
EQT0025	60-Stormwater Lift Station												2							
EQT0026	61-Firewater Pump # 3				1		3								3					
EQT0027	62-Firewater Pump # 5				1		3								3					
EQT0028	66-Methanol Storage Tank								1											
EQT0029	67-DAC Storage Tank (FB-802B)								1											
EQT0030	68-Firewater Pump #6				1		3								3					
EQT0031	69-Firewater Pump # 7				1		3								3					
EQT0032	70-Cooling Tower																			
EQT0033	80-DAC Storage Tank (FB-802A)								1											
EQT0034	91-Emergency Generator Engine				1		3								3					
EQT0035	93-Emergency Generator Engine				1		3								3					
EQT0036	94-Emergency Generator Engine				1		3								3					
EQT0037	96-Excess Effluent Holding Tank (FB-812A)												2							

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III. Chapter																		
		5 [▲]	509	9	11	13	15	2103	2104*	2107	2113	2115	2122	2153	22	29*	51*	53*	56	59*
EQT0038	97-Wastewater/DAC Storage Tank (FB-812B)							1						2						
EQT0039	99-Biological Treatment Unit												2							
FUG0001	2-Olefins Plant Fugitive Emissions											1								
EQT0040	Olefins Utility Boiler F			1	1	3									1					
EQT0041	71A-Air Compressor # 1 Engine			1		3									3					
EQT0042	71B-Water Pump # 1 Engine			1		3									3					
EQT0043	71C-Water Pump # 2 Engine			1		3									3					
EQT0044	71D-Welder # 1 Engine			1		3									3					
EQT0045	71E-Welder # 2 Engine			1		3									3					
EQT0046	71F-Welder # 3 Engine			1		3									3					
EQT0047	71G-Welder # 4 Engine			1		3									3					
EQT0048	71H-Welder # 5 Engine			1		3									3					
EQT0049	71J-Welder # 6 Engine			1		3									3					

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

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KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS							40 CFR 61				40 CFR 63				40 CFR					
		A	Db	Kb	VV	VVa	NNN	RRR	IIII	A	J&V	FF	M	Q	XX	YY	ZZZZ	52	64	68	82	
EQT0018	36B-Olefins Cracking Heater 108						3															
EQT0019	41-Olefins Cracking Heater 109						3															
EQT0021	45A-Olefins Utility Boiler A	3																				
EQT0023	45B-Olefins Utility Boiler B	3																				
EQT0025	60-Stormwater Lift Station																					
EQT0026	61-Firewater Pump # 3							3														
EQT0027	62-Firewater Pump # 5							3														
EQT0028	66-Methanol Storage Tank			3																		
EQT0029	67-DAC Storage Tank (FB-802B)		1																			
EQT0030	68-Firewater Pump # 6							3														
EQT0031	69-Firewater Pump # 7							3														
EQT0032	70-Cooling Tower											3										
EQT0033	80-DAC Storage Tank (FB-802A)		3																			
EQT0034	91-Emergency Generator Engine							3														
EQT0035	93-Emergency Generator Engine							3														
EQT0036	94-Emergency Generator Engine							3														
EQT0037	96-Excess Effluent Holding Tank (FB-812A)																					

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KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirements:	Notes
EQT 0004, EQT 0005, EQT 0010, and EQT0012 through EQT0019 Cracking Heaters	Emission Standards for Sulfur Dioxide LAC 33:III.Chapter 15	DOES NOT APPLY. The provisions of this chapter does not apply as the SO ₂ emits less than 5 tons per year. LAC 33:III.1502.A.3.
	Standards of Performance for Volatile Organic Compound Emissions From Synthetic Organic Chemical Manufacturing Industry(SOCMI) Reactor Processes 40 CFR 60-Subpart RRR	DOES NOT APPLY. No modification of reactor processes after June 29, 1990.
EQT 0006, EQT0009, and EQT0040 Utility Boilers D, E and F	Emission Standards for SO ₂ LAC 33:III. Chapter 15	DOES NOT APPLY. The provisions of this chapter does not apply as the SO ₂ emits less than 5 tons per year. LAC 33:III.1502.A.3.
	CAM Plans 40 CFR 64	EXEMPT: FGR System Parameters are not used in the Required NO _x Determinations 40 CFR 64.2(b)(1)(vi)

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
ET0007 & EQT0008 Cracking Heaters	Emissions Standards for SO ₂ LAC 33:III. Chapter 15	DOES NOT APPLY. The provisions of this chapter does not apply as the SO ₂ emits less than 5 tons per year. LAC 33:III.1502.A.3.
EQT 0011 Olefins Plant Flare	Standards of Performance for Volatile Organic Compound Emissions From Synthetic Organic Chemical Manufacturing Industry(SOCCMI) Reactor Processes 40 CFR 60-Subpart RRR Emissions Standards for SO ₂ LAC 33:III. Chapter 15	DOES NOT APPLY. There are no process vent streams from these reactor processes. EXEMPT: Single point sources that emit or have the potential to emit less than 250 tons per year of sulfur dioxide are exempted. LAC 33:III.1503.C
EQT0021 and EQT0023 Utility Boilers	Control of Emissions of Nitrogen Oxides LAC 33:III.2201 Emissions Standards for SO ₂ LAC 33:III. Chapter 15	EXEMPT: The provisions of this chapter is exempted as per LAC 33:III.2201.C7.
NSPS Subpart Db for steam boilers 40 CFR 60	Emissions Standards for SO ₂ LAC 33:III. Chapter 15	DOES NOT APPLY. The provisions of this chapter does not apply as the SO ₂ emits less than 5 tons per year. LAC 33:III.1502.A.3. DOES NOT APPLY. The Steam Generating Units have no modification after June 23, 1984.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT0025, EQT0037 and EQT0039 Stormwater Lift Station, Wastewater Tanks	Control of VOC Emissions from Industrial Wastewater LAC 33:III.2153	EXEMPT: Because Wastewater contains <1000 mg/L of VOC
EQT0026, EQT0027, EQT0030, EQT0031, EQT0034, EQT0035, and EQT0036 Firewater Pump & Emergency Generator Engines	LAC 33:III.2103 and NSPS Subpart Kb for VOL Storage Tanks Emissions Standards for SO ₂ LAC 33:III. Chapter 15	DOES NOT APPLY. The tanks do not store VOL DOES NOT APPLY. The provisions of this chapter does not apply as the SO ₂ emits less than 5 tons per year. LAC 33:III.1502.A.3.
	Control of Emissions of Nitrogen Oxides LAC 33:III.2201	EXEMPT: The provisions of this chapter is exempted as per LAC 33:III.2201.C.14..
	NSPS Subpart IIII for CI-IC Engines 40 CFR 60	DOES NOT APPLY. Because no modification of the engine was done after 2005.

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ID No:	Requirement	Notes
EQT0026,EQT0027,EQT0030, EQT0031,EQT0034,EQT0035, and EQT0036 Firewater Pump & Emergency Generator Engines (continued)	NESHAP Subpart ZZZZ 40 CFR 63	DOES NOT APPLY: Existing CI-IC Engines located at an area source of hazardous air pollutants and constructed before June 12, 2006.
ARE0001 Converter Regenerator Vent	Waste Gas Disposal LAC 33:III.2115	EXEMPT: The provisions of this chapter is exempted as per LAC 33:III.2115.H.I.d.
EQT0028 Methanol Tank	NSPS Subpart Kb for storage tanks 40 CFR 60	DOES NOT APPLY: Because volume of the vessel is less than 10,500 gallons.
EQT0032 Cooling Tower	NESHAP 40 CFR 63 Subpart Q	DOES NOT APPLY: Tower not located at a major source of hazardous air pollutants and Chromium based chemicals are not utilized.
EQT0033 DAC Storage Tank	NSPS Subpart Kb for storage tanks 40 CFR 60	DOES NOT APPLY: No modification of the tanks after 1984.
GRP0007 CAP 3 Small Diesel Engines	Emission Standards for SO ₂ LAC 33:III.Chapter 15	DOES NOT APPLY. The provisions of this chapter does not apply as the SO ₂ emits less than 5 tons per year. LAC 33:III.1502.A.3.

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ID No:	Requirement	Notes
GRP0007 CAP 3 Small Diesel Engines (continued)	Control of Nitrogen Oxides LAC 33:III.2201	EXEMPT: Listed Exempt Equipment LAC 33:III.2201.C.14
	NSPS for CI-IC Engines 40 CFR 60, Subpart IIII	DOES NOT APPLY: No modification after 7/11/05 40 CFR 60.4200
	NESHAP for IC Engines 40 CFR 63, Subpart ZZZZ	DOES NOT APPLY: Existing Engines Constructed prior 6/12/06 40 CFR 63.6590(b)(3)
FUG0001 Fugitive Emissions	NSPS for VOC Equipment Leaks in SOCM1, 40 CFR 60, Subpart VVa	DOES NOT APPLY. No Process Unit Modification after 11/7/06 40 CFR 60.480a(b)
UNF 0001 Plant Wide	Standards of Performance for Volatile Organic Compound (VOC) Emissions from Synthetic Organic Chemical Manufacturing Industry (SOCHMI) Distillation Operations 40 CF 60 –Subpart NNN. National Emission Standards for Ethylene Manufacturing Process Units. Heat Exchange Systems and Waste Operations. 40 CFR 63, Subpart XX	DOES NOT APPLY. Because there are no atmospheric process vents from new or modified distillation operations DOES NOT APPLY. Because the facility is not a major source of hazardous air pollutants.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
UNF 0001 Plant Wide (continued)	National Emission Standards for Hazardous Air Pollutants for Source Categories: Generic Maximum Achievable Control Technology Standards. 40 CFR 63. Subpart YY.	DOES NOT APPLY. Because the facility is not a major source of hazardous air pollutants.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

General Information

AI ID: 5565 Williams Olefins LLC - Geismar Ethylene Plant
Activity Number: PER20090001
Permit Number: 0180-00029-V9
Air - Title V Regular Permit Minor Mod

Also Known As:		ID	Name	User Group	Start Date
		0180-00029	Williams Olefins LLC - Geismar Ethylene Plant	CDS Number	09-01-1999
		73-1562943	Federal Tax ID	Federal Tax ID	11-14-2000
		LAD981149750	Union Texas Petrochemicals Corp	Hazardous Waste Notification	12-16-1985
		5565	Union Texas Petrochemicals - Geismar Ethylene Plant	Inactive & Abandoned Sites	02-09-2000
		LA0069612	LPDES #	LPDES Permit #	05-22-2003
		LAG670086	LPDES #	LPDES Permit #	11-22-2006
		WP1545	LWDPS #	LWDPS Permit #	06-25-2003
			Union Tex/Geismar PI	Multimedia	08-05-2002
			Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
		GD-005-2017	Site ID #	Solid Waste Facility No.	02-01-2001
		17854	Williams Olefins LLC	TEMPO Merge	11-01-2000
		36542	Williams Olefins LLC	TEMPO Merge	11-01-2000
		80665	Williams Olefins LLC	TEMPO Merge	07-10-2001
		70734NNTXSLAHVY	TRI #	Toxic Release Inventory	07-09-2004

Physical Location: 5205 Hwy 3115 Geismar, LA 70734

Mailing Address: 5205 Hwy 3115 Geismar, LA 70734

Location of Front Gate: 30.231944 latitude, -91.050833 longitude, Coordinate Method: Lat.\Long. - DMS, Coordinate Datum: NAD83

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Douglas Badon	PO Box 470 Geismar, LA 707340470	2256422114 (WP)	Accident Prevention Billing Party for
	Douglas Badon	PO Box 470 Geismar, LA 707340470	DOUG.BADON@WI	Water Billing Party for
	Douglas Badon	PO Box 470 Geismar, LA 707340470	2256422114 (WP)	Water Billing Party for
	Douglas Badon	PO Box 470 Geismar, LA 707340470	DOUG.BADON@WI	Solid Waste Billing Party for
	Douglas Badon	PO Box 470 Geismar, LA 707340470	2256422114 (WP)	Solid Waste Billing Party for
	Douglas Badon	PO Box 470 Geismar, LA 707340470	DOUG.BADON@WI	Emission Inventory Contact for
	Douglas Badon	PO Box 470 Geismar, LA 707340470	2256422114 (WP)	Emission Inventory Contact for
	Douglas Badon	PO Box 470 Geismar, LA 707340470	DOUG.BADON@WI	Accident Prevention Billing Party for
	Larry Bayer	PO Box 470 Geismar, LA 70734	larry.bayer@williams	Responsible Official for
	Larry Bayer	PO Box 470 Geismar, LA 70734	2256422114 (WP)	Responsible Official for
	Larry Bayer	PO Box 470 Geismar, LA 70734	2256422114 (WP)	Accident Prevention Contact for
	Larry Bayer	PO Box 470 Geismar, LA 70734	larry.bayer@williams	Accident Prevention Contact for
	J. G. Berret	5205 Hwy 3115 Geismar, LA 70734	jake.berret@williams	Radiation Contact For

General Information

AI ID: 5565 Williams Olefins LLC - Geismar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	J. G. Berret	5205 Hwy 3115 Geismar, LA 70734	2256422128 (WF)	Radiation Contact For
	J. G. Berret	5205 Hwy 3115 Geismar, LA 70734	2256422169 (WP)	Radiation Contact For
	J. G. Berret	5205 Hwy 3115 Geismar, LA 70734	2252815805 (CP)	Radiation Safety Officer for
	J. G. Berret	5205 Hwy 3115 Geismar, LA 70734	jake.berret@williams	Radiation Safety Officer for
	J. G. Berret	5205 Hwy 3115 Geismar, LA 70734	2256422169 (WP)	Radiation Safety Officer for
	J. G. Berret	5205 Hwy 3115 Geismar, LA 70734	2256422128 (WF)	Radiation Safety Officer for
	J. G. Berret	5205 Hwy 3115 Geismar, LA 70734	2252815805 (CP)	Radiation Contact For

Related Organizations:	Name	Address	Phone (Type)	Relationship
	Williams Olefins LLC	PO Box 470 Geismar, LA 70734	2256422100 (WP)	Owns
	Williams Olefins LLC	PO Box 470 Geismar, LA 70734	2256422100 (WP)	Emission Inventory Billing Party
	Williams Olefins LLC	PO Box 470 Geismar, LA 70734	2256422100 (WP)	Radiation License Billing Party for
	Williams Olefins LLC	PO Box 470 Geismar, LA 70734	2256422100 (WP)	Air Billing Party for

NAIC Codes: 325110, Petrochemical Manufacturing

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@ia.gov.

INVENTORIES

AJ ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant
Activity Number: PER20090001
Permit Number: 0180-00029-V9
Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Geismar Ethylene Plant						
ARE 0002	63 - Converter Regeneration Vent					1080 hr/yr
EQT 0004	1 - Olefins Cracking Heater 100		130 MM BTU/hr			8760 hr/yr
EQT 0005	3 - Olefins Cracking Heater 99		130 MM BTU/hr			8760 hr/yr
EQT 0006	4 - Olefins Utility Boiler D		232 MM BTU/hr			8760 hr/yr
EQT 0007	5 - Olefins Cracking Heater 98		130 MM BTU/hr			8760 hr/yr
EQT 0008	6 - Olefins Cracking Heater 97		144 MM BTU/hr			8760 hr/yr
EQT 0009	8 - Olefins Utility Boiler E		232 MM BTU/hr			8760 hr/yr
EQT 0010	33A - Olefins Cracking Heater 101		144 MM BTU/hr			8760 hr/yr
EQT 0011	20 - Olefins Plant Flare					8760 hr/yr
EQT 0012	33B - Olefins Cracking Heater 102		144 MM BTU/hr			8760 hr/yr
EQT 0013	34A - Olefins Cracking Heater 103		144 MM BTU/hr			8760 hr/yr
EQT 0014	34B - Olefins Cracking Heater 104		144 MM BTU/hr			8760 hr/yr
EQT 0015	35A - Olefins Cracking Heater 105		144 MM BTU/hr			8760 hr/yr
EQT 0016	35B - Olefins Cracking Heater 106		144 MM BTU/hr			8760 hr/yr
EQT 0017	36A - Olefins Cracking Heater 107		112 MM BTU/hr			8760 hr/yr
EQT 0018	36B - Olefins Cracking Heater 108		112 MM BTU/hr			8760 hr/yr
EQT 0019	41 - Olefins Cracking Heater 109		144 MM BTU/hr			8760 hr/yr
EQT 0021	45A - Olefins Utility Boiler A		220 MM BTU/hr			8760 hr/yr
EQT 0023	45B - Olefins Utility Boiler B		220 MM BTU/hr			8760 hr/yr
EQT 0025	60 - Stormwater Lift Station					8760 hr/yr
EQT 0026	61 - Firewater Pump # 3		380 horsepower			200 hr/yr
EQT 0028	62 - Firewater Pump #5		380 horsepower			200 hr/yr
EQT 0027	66 - Methanol Storage Tank	5000 gallons				8760 hr/yr
EQT 0029	67 - DAC Storage Tank (FB-802B)	35714 bbl				8760 hr/yr
EQT 0030	68 - Firewater Pump # 6		380 horsepower			200 hr/yr
EQT 0031	69 - Firewater Pump# 7		380 horsepower			200 hr/yr
EQT 0032	70 - Cooling Tower			67000 gallons/min		8760 hr/yr
EQT 0033	80 - DAC Storage Tank (FB-802A)	20000 bbl				8760 hr/yr
EQT 0034	91 - Emergency Generator Engine		700 horsepower			100 hr/yr
EQT 0035	93 - Emergency Generator Engine		760 horsepower			100 hr/yr
EQT 0036	94 - Emergency Generator Engine		700 horsepower			100 hr/yr
EQT 0037	96 - Excess Effluent holding Tank (FB-812A)	23810 bbl				8760 hr/yr
EQT 0038	97 - Wastewater/DAC Storage Tank (FB-812B)	23810 bbl				8760 hr/yr
EQT 0039	99 - Biological Treatment Unit	64288 bbl				8760 hr/yr
EQT 0040	11 - Olefins Utility Boiler F		232 MM BTU/hr			8760 hr/yr
EQT 0041	71A - Air Compressor # 1 Engine		102 horsepower			8760 hr/yr
EQT 0042	71B - Water Pump # 1 Engine		66.5 horsepower			8760 hr/yr
EQT 0043	71C - Water Pump #2 Engine		48 horsepower			8760 hr/yr
EQT 0044	71D - Welder # 1 Engine		41.5 horsepower			8760 hr/yr

INVENTORIES

AJID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant
Activity Number: PER20090001
Permit Number: 0180-00029-V9
Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Geismar Ethylene Plant						
EQT 0045	71E - Welder # 2 Engine		41.5 horsepower			8760 hr/yr
EQT 0046	71F - Welder #3 Engine		41.5 horsepower			8760 hr/yr
EQT 0047	71G - Welder #4 Engine		41.5 horsepower			8760 hr/yr
EQT 0048	71H - Welder # 5 Engine		66.5 horsepower			8760 hr/yr
EQT 0049	71J - Welder #6 Engine		59.6 horsepower			8760 hr/yr
FUG 0001	2 - Olefins Plant Fugitive Emissions					8760 hr/yr

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Geismar Ethylene Plant							
ARE 0002	63 - Converter Regeneration Vent			1		20	140
EQT 0004	1 - Olefins Cracking Heater 100	30.5	37300	5.1		140	300
EQT 0005	3 - Olefins Cracking Heater 99	30.5	37300	5.1		140	300
EQT 0006	4 - Olefins Utility Boiler D	65	66600	4.67		100	300
EQT 0007	5 - Olefins Cracking Heater 98	30.5	37300	5.1		140	300
EQT 0008	6 - Olefins Cracking Heater 97	36.1	42500	5		140	330
EQT 0009	8 - Olefins Utility Boiler E	65	66600	4.67		100	30
EQT 0010	33A - Olefins Cracking Heater 101	50	42500	4.25		123	330
EQT 0011	20 - Olefins Plant Flare	20	135000	12		245	1500
EQT 0012	33B - Olefins Cracking Heater 102	50	42500	4.25		123	330
EQT 0013	34A - Olefins Cracking Heater 103	50	42500	4.25		123	330
EQT 0014	34B - Olefins Cracking Heater 104	50	42500	4.25		123	300
EQT 0015	35A - Olefins Cracking Heater 105	50	42500	4.25		123	300
EQT 0016	35B - Olefins Cracking Heater 106	50	42500	4.25		123	300
EQT 0017	36A - Olefins Cracking Heater 107	56.3	37300	3.75		123	360
EQT 0018	36B - Olefins Cracking Heater 108	56.3	37300	3.75		123	360
EQT 0019	41 - Olefins Cracking Heater 109	50	42500	4.25		123	330
EQT 0021	45A - Olefins Utility Boiler A	47.4	142800	8		101	400
EQT 0023	45B - Olefins Utility Boiler B	47.4	142800	8		101	400
EQT 0026	61 - Firewater Pump # 3	80	1550	.6		20	800
EQT 0027	62 - Firewater Pump #5	80	1550	.6		20	800
EQT 0028	66 - Methanol Storage Tank			.05		13.3	
EQT 0029	67 - DAC Storage Tank (FB-802B)			90		35	

INVENTORIES

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant
Activity Number: PER20090001
Permit Number: 0180-00029-V9
Air - Title V Regular Permit Minor Mod

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Geismar Ethylene Plant							
EQT 0030	68 - Firewater Pump # 6	125	2100	.6		20	930
EQT 0031	69 - Firewater Pump# 7	125	2100	.6		20	930
EQT 0032	70 - Cooling Tower					65	100
EQT 0033	80 - DAC Storage Tank (FB-802A)			67		32	
EQT 0034	91 - Emergency Generator Engine	95	3100	.83		25	800
EQT 0035	93 - Emergency Generator Engine	45	3100	1.2		25	800
EQT 0036	94 - Emergency Generator Engine	95	3100	.83		25	800
EQT 0037	96 - Excess Effluent holding Tank (FB-812A)			90		25	
EQT 0038	97 - Wastewater/DAC Storage Tank (FB-812B)			90		25	
EQT 0039	99 - Biological Treatment Unit			75		28	
EQT 0040	11 - Olefins Utility Boiler F	65	66600	4.67		100	300

Relationships:

Subject Item Groups:

ID	Group Type	Group Description
GRP 0004	Equipment Group	CAP1 - Boilers (CAP 1)
GRP 0005	Equipment Group	CAP2 - Cracking Heaters (CAP 2)
GRP 0006	Equipment Group	GRP0006 - Alternative NOx Control Averaging Group
GRP 0007	Equipment Group	CAP3 - Small Diesel Engines (CAP3)
UNF 0001	Unit or Facility Wide	Facility - Geismar Ethylene Plant

Group Membership:

ID	Description	Member of Groups
EQT 0006	4 - Olefins Utility Boiler D	GRP00000000004
EQT 0007	5 - Olefins Cracking Heater 98	GRP00000000006
EQT 0008	6 - Olefins Cracking Heater 97	GRP00000000006
EQT 0009	8 - Olefins Utility Boiler E	GRP00000000004
EQT 0010	33A - Olefins Cracking Heater 101	GRP00000000005, GRP00000000006
EQT 0012	33B - Olefins Cracking Heater 102	GRP00000000005, GRP00000000006
EQT 0013	34A - Olefins Cracking Heater 103	GRP00000000005, GRP00000000006
EQT 0014	34B - Olefins Cracking Heater 104	GRP00000000005, GRP00000000006
EQT 0015	35A - Olefins Cracking Heater 105	GRP00000000005, GRP00000000006
EQT 0016	35B - Olefins Cracking Heater 106	GRP00000000005, GRP00000000006
EQT 0017	36A - Olefins Cracking Heater 107	GRP00000000005, GRP00000000006

INVENTORIES

AI ID: 5665 - Williams Olefins LLC - Geismar Ethylene Plant
Activity Number: PER20090001
Permit Number: 0180-00029-V9
Air - Title V Regular Permit Minor Mod

Group Membership:

ID	Description	Member of Groups
EQT 0018	36B - Olefins Cracking Heater 108	GRP000000000005, GRP000000000006
EQT 0019	41 - Olefins Cracking Heater 109	GRP000000000005
EQT 0021	45A - Olefins Utility Boiler A	GRP000000000004
EQT 0023	45B - Olefins Utility Boiler B	GRP000000000004
EQT 0040	11 - Olefins Utility Boiler F	GRP000000000004
EQT 0041	71A - Air Compressor # 1 Engine	GRP000000000007
EQT 0042	71B - Water Pump # 1 Engine	GRP000000000007
EQT 0043	71C - Water Pump #2 Engine	GRP000000000007
EQT 0044	71D - Welder # 1 Engine	GRP000000000007
EQT 0045	71E - Welder # 2 Engine	GRP000000000007
EQT 0046	71F - Welder #3 Engine	GRP000000000007
EQT 0047	71G - Welder #4 Engine	GRP000000000007
EQT 0048	71H - Welder # 5 Engine	GRP000000000007
EQT 0049	71J - Welder #6 Engine	GRP000000000007

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0635	0635 Olefins and Aromatics N.E.C. (Rated Capacity)	1300	MM lbs/yr

SIC Codes:

2869	Industrial organic chemicals, nec	UNF 001
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EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Geismar Ethylene Plant															
ARE 0002 63	0.08	0.10	0.04												
EQT 0004 1	4.55	4.55	19.9	11.70	11.70	51.2	0.99	0.99	4.3	0.08	0.08	0.3	0.72	0.72	3.1
EQT 0005 3	4.55	4.55	19.9	11.70	11.70	51.2	0.99	4.99	4.2	0.08	0.08	0.3	0.72	0.72	3.1
EQT 0006 4		9.28			25.52			1.76			0.14			1.28	
EQT 0007 5	4.55	4.55	19.9	14.30	14.30	62.6	0.99	0.99	4.3	0.08	0.08	0.3	0.72	0.72	3.1
EQT 0008 6	5.04	5.04	22.1	12.24	12.24	53.6	1.09	1.09	4.8	0.09	0.09	0.4	0.79	0.79	3.5
EQT 0009 8		9.28			23.20			1.76			0.14			1.28	
EQT 0010 33A		5.04	22.1		12.53	54.9		1.09	4.8		0.09	0.4		0.79	3.5
EQT 0011 20	25.71		112.6	4.73		20.7				34.55		151.3	3.73		16.36
EQT 0012 33B		5.4			12.53			1.09			0.09			0.79	3.5
EQT 0013 34A		5.04			12.53			1.09			0.09			0.79	
EQT 0014 34B		5.04			12.53			1.09			0.09			0.79	
EQT 0015 35A		5.04			12.53			1.09			0.09			0.79	
EQT 0016 35B		5.04			12.59			1.09			0.09			0.79	3.5
EQT 0017 36A		3.92			9.74			0.85			0.07			0.62	
EQT 0018 36B		3.92			9.74			0.85			0.07			0.62	
EQT 0019 41		5.04			12.96			1.09			0.09			0.79	
EQT 0021 45A		8.80			24.20			1.67			0.13			1.21	
EQT 0023 45B		8.80			24.20			1.67			0.13			1.21	
EQT 0025 60													0.19		0.85
EQT 0026 61	2.54	2.54	0.25	11.73	11.73	1.17	0.84	0.84	0.08	0.78	0.78	0.08	0.96	0.96	0.10
EQT 0027 62	2.54	2.54	0.25	11.73	11.73	1.17	0.84	0.84	0.08	0.78	0.78	0.08	0.96	0.96	0.10
EQT 0028 66													0.024		0.10

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 5565 - Williams Olefins LLC - Gelsmar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Gelsmar Ethylene Plant															
EQT 0029 67															
EQT 0030 68	2.54	2.54	0.25	11.73	11.73	1.17	0.84	0.84	0.08	0.78	0.78	0.08	0.96	0.96	0.10
EQT 0031 69	2.54	2.54	0.25	11.73	11.73	1.17	0.84	0.84	0.08	0.78	0.78	0.08	0.96	0.96	0.10
EQT 0032 70							16.76		73.4				1.34		5.9
EQT 0033 80													0.21		0.92
EQT 0034 91	4.68	4.68	0.23	21.61	21.61	1.08	1.54	1.54	0.08	1.44	1.44	0.07	1.76	1.76	0.09
EQT 0035 93	5.08	5.08	0.25	23.46	23.46	1.17	1.68	1.68	0.08	1.56	1.56	0.08	1.91	1.91	0.10
EQT 0036 94	4.68	4.68	0.23	21.61	21.61	1.08	1.54	1.54	0.08	1.44	1.44	0.07	1.76	1.76	0.09
EQT 0037 96													0.027		0.12
EQT 0038 97													0.25		1.07
EQT 0039 99													0.25		1.07
EQT 0040 11		9.28			23.20			1.76			0.14			1.28	
EQT 0041 71A		0.68			3.15			0.22			0.21			0.26	
EQT 0042 71B		0.44			2.05			0.15			0.14			0.17	
EQT 0043 71C		0.32			1.48			0.11			0.10			0.12	
EQT 0044 71D		0.28			1.28			0.09			0.09			0.10	
EQT 0045 71E		0.28			1.28			0.09			0.09			0.10	
EQT 0046 71F		0.28			1.28			0.09			0.09			0.10	
EQT 0047 71G		0.28			1.28			0.09			0.09			0.10	
EQT 0048 71H		0.44			2.05			0.15			0.14			0.17	
EQT 0049 71J		0.40			1.84			0.13			0.12			0.15	
FUG 0001 2															
GRP 0004 CAP1	21.01		92.00	57.76		253.00	3.99		17.5	0.32		1.4	2.89	44.22	193.67
															12.7

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Geismar Ethylene Plant															
GRP 0005 CAP2	39.16		171.5	97.76		428.20	8.50		37.20	0.67		2.90	6.15		27.00
GRP 0007 CAP3	0.43		1.90	2.01		8.82	0.14		0.62	0.13		0.58	0.16		0.72

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0011 20	1,3-Butadiene	0.07		0.30
	Benzene	0.05		0.20
	Styrene	0.004		0.02
	Toluene	0.01		0.04
EQT 0025 60	Benzene	0.04	0.04	0.19
	Styrene	0.004	0.004	0.02
	Toluene	0.009	0.009	0.04
EQT 0028 66	Methanol	0.024	0.024	0.10
EQT 0029 67	1,3-Butadiene	0.04	0.04	0.16
	Benzene	0.07	0.07	0.31
	Toluene	0.003		0.01
EQT 0033 80	1,3-Butadiene	0.03	0.03	0.14
	Benzene	0.06	0.06	0.27
	Toluene	0.002	0.002	0.01
EQT 0037 96	Benzene	0.018	0.018	0.08
	Styrene	0.003	0.003	0.01
	Toluene	0.006	0.006	0.03
EQT 0038 97	1,3-Butadiene	0.04	0.04	0.15
	Benzene	0.07	0.07	0.30
	Toluene	0.003	0.003	0.01
EQT 0039 99	Benzene	0.09	0.09	0.39
	Styrene	0.03	0.03	0.13
	Toluene	0.04	0.04	0.16
FUG 0001 2	1,3-Butadiene	1.01	1.01	4.45
	Benzene	1.34	1.34	5.89
	Ethyl benzene	0.04	0.04	0.18
	Methanol	0.30	0.30	1.32
	Naphthalene	0.10	0.10	0.43
	Styrene	0.18	0.18	0.78
	Toluene	0.28	0.28	1.22
	Xylene (mixed isomers)	0.06	0.06	0.26
UNF 0001 Facility	1,3-Butadiene			5.20
	Benzene			7.63

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0001 Facility	Ethyl benzene			0.18
	Methanol			1.42
	Naphthalene			0.43
	Styrene			0.96
	Toluene			1.52
	Xylene (mixed isomers)			0.26

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS**AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant****Activity Number: PER20090001****Permit Number: 0180-00029-V9****Air - Title V Regular Permit Minor Mod****EQT 0004 1 - Olefins Cracking Heater 100**

- 1 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: None specified
- 2 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
- 3 [LAC 33:III.2201.D.1] Nitrogen oxides <= 0.09 lb/MMBTU.
Which Months: May-Sep Statistical Basis: Thirty-day rolling average
- 4 [LAC 33:III.2201.H.2.a.i] Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
Which Months: May-Sep Statistical Basis: None specified
- 5 [LAC 33:III.2201.I.2] Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d.
- 6 [LAC 33:III.2201.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT 0005 3 - Olefins Cracking Heater 99

- 7 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: None specified
- 8 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
- 9 [LAC 33:III.2201.D.1] Nitrogen oxides <= 0.09 lb/MMBTU.
Which Months: May-Sep Statistical Basis: Thirty-day rolling average
- 10 [LAC 33:III.2201.H.2.a.i] Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
Which Months: May-Sep Statistical Basis: None specified
- 11 [LAC 33:III.2201.I.2] Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d.
- 12 [LAC 33:III.2201.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT 0006 4 - Olefins Utility Boiler D

- 13 [40 CFR 60.44b] Nitrogen oxides < 0.20 lb/MMBTU (43 ng/J) heat input (expressed as NO₂), except as provided in 40 CFR 60.44b(k). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db.
Which Months: All Year Statistical Basis: Thirty-day rolling average

SPECIFIC REQUIREMENTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

EQT 0006 4 - Olefins Utility Boiler D

14 [40 CFR 60.46b(e)(4)]

To determine compliance with the emission limits for nitrogen oxides required under 60.44b, the owner or operator of an affected facility shall conduct performance test as required under 40 CFR 60.8 using the continuous system for monitoring NOx under 40 CFR 60.48b. Following the date on which the initial performance test is completed or required to be completed under 40 CFR 60.8, whichever date comes first, the owner or operator of an affected facility that has a heat input capacity of 73 MW (250 MM/MBTU/hr) or less and that combusts natural gas, distillate oil, or residual oil having a nitrogen content of 0.30 weight percent or less shall upon request determine compliance with the NOx standards under 60.44b through the use of a 30-day performance test. During periods when performance tests are not requested, NOx emissions data collected pursuant to 40 CFR 60.48b(g)(1) or 40 CFR 60.48b(g)(2) are used to calculate a 30-day rolling average emission rate on a daily basis and used to prepare excess emission reports, but will not be used to determine compliance with the NOx emission standards. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NOx emission data for the preceding 30 steam generating unit operating days. [40 CFR 60.46b(e)(4)]

15 [40 CFR 60.48b(g)] Monitor steam generating unit operating conditions and predict nitrogen oxides emission rates as specified in a plan submitted pursuant to 60.49b(c). [40 CFR 60.48b(g)]

16 [40 CFR 60.49b(g)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(6) for each steam generating unit operating day. Subpart Db [40 CFR 60.49b(g)]

17 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

19 [LAC 33:III.2201.D.1] Nitrogen oxides < 0.1125 lb/MMBTU.

Which Months: May-Sep Statistical Basis: Thirty-day rolling average

Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.

Which Months: May-Sep Statistical Basis: None specified

21 [LAC 33:III.2201.1.2] Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC

33:III.2201.D or E. Include the information specified in LAC 33:III.2201.1.2.a through 1.2.d.

22 [LAC 33:III.2201.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.1.3 and 1.4 as applicable.

EQT 0007 5 - Olefins Cracking Heater 98

23 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AJ ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

EQT 0008 6 - Olefins Cracking Heater 97

25 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

26 [LAC 33:III.1313.C]

EQT 0009 8 - Olefins Utility Boiler E

27 [40 CFR 60.44b]

Nitrogen oxides < 0.20 lb/MMBTU (43 ng/J) heat input (expressed as NO₂), except as provided in 40 CFR 60.44b(k). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db.

Which Months: All Year Statistical Basis: Thirty-day rolling average

28 [40 CFR 60.46b(e)(4)]

To determine compliance with the emission limits for nitrogen oxides required under 60.44b, the owner or operator of an affected facility shall conduct performance test as required under 40 CFR 60.8 using the continuous system for monitoring NO_x under 40 CFR 60.48b. Following the date on which the initial performance test is completed or required to be completed under 40 CFR 60.8, whichever date comes first, the owner or operator of an affected facility that has a heat input capacity of 73 MW (250 MM/BTU/hr) or less and that combusts natural gas, distillate oil, or residual oil having a nitrogen content of 0.30 weight percent or less shall upon request determine compliance with the NO_x standards under 60.44b through the use of a 30-day performance test. During periods when performance tests are not requested, NO_x emissions data collected pursuant to 40 CFR 60.48b(g)(1) or 40 CFR 60.48b(g)(2) are used to calculate a 30-day rolling average emission rate on a daily basis and used to prepare excess emission reports, but will not be used to determine compliance with the NO_x emission standards. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NO_x emission data for the preceding 30 steam generating unit operating days. [40 CFR 60.46b(e)(4)]

29 [40 CFR 60.48b(g)(2)]

Monitor steam generating unit operating conditions and predict nitrogen oxides emission rates as specified in a plan submitted pursuant to 60.49b(c). [40 CFR 60.48b(g)(2)]

30 [40 CFR 60.49b(g)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(6) for each steam generating unit operating day. Subpart Db. [40 CFR 60.49b(g)]

31 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

32 [LAC 33:III.1313.C]

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

33 [LAC 33:III.2201.D.1]

Which Months: All Year Statistical Basis: None specified

34 [LAC 33:III.2201.H.1.a.i]

Nitrogen oxides < 0.1125 lb/MMBTU.

Which Months: May-Sep Statistical Basis: Thirty-day rolling average

Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.

Which Months: May-Sep Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

EQT 0009 8 - Olefins Utility Boiler E

- 35 [LAC 33:III.2201.1.2] Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.1.2.a through 1.2.d.
- 36 [LAC 33:III.2201.J] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.1.3 and 1.4 as applicable.

EQT 0011 20 - Olefins Plant Flare

- 37 [LAC 33:III.1105] Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
Which Months: All Year Statistical Basis: None specified
- 38 [LAC 33:III.1105] Submit notification: Due to SPOC as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
- 39 [LAC 33:III.501.C.6] Presence of a flame recordkeeping by electronic or hard copy daily.
- 40 [LAC 33:III.501.C.6] Flare gas: Heat content recordkeeping by electronic or hard copy annually.
- 41 [LAC 33:III.501.C.6] Flare gas: Heat content > 300 BTU/scf, to ensure destruction of emissions to the flare stack.
Which Months: All Year Statistical Basis: None specified

EQT 0019 41 - Olefins Cracking Heater 109

- 42 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: None specified
- 43 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
- 44 [LAC 33:III.2201.D.1] Nitrogen oxides <= 0.09 lb/MMBTU.
Which Months: May-Sep Statistical Basis: Thirty-day rolling average
- 45 [LAC 33:III.2201.H.2.a.i] Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
Which Months: May-Sep Statistical Basis: None specified
- 46 [LAC 33:III.2201.1.2] Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.1.2.a through 1.2.d.
- 47 [LAC 33:III.2201.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.1.3 and 1.4 as applicable.

EQT 0021 45A - Olefins Utility Boiler A

SPECIFIC REQUIREMENTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

EQT 0021 45A - Olefins Utility Boiler A

- 48 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
- 49 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
- 50 [LAC 33:III.2201.D.1] Nitrogen oxides < 0.1125 lb/MMBTU.
Which Months: May-Sep Statistical Basis: Thirty-day rolling average
- 51 [LAC 33:III.2201.H.1.a.i] Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
Which Months: May-Sep Statistical Basis: None specified
- 52 [LAC 33:III.2201.I.2] Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d.
- 53 [LAC 33:III.2201.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT 0023 45B - Olefins Utility Boiler B

- 54 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: None specified
- 55 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
- 56 [LAC 33:III.2201.D.1] Nitrogen oxides <= 0.1125 lb/MMBTU.
Which Months: May-Sep Statistical Basis: Thirty-day rolling average
- 57 [LAC 33:III.2201.H.1.a.i] Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
Which Months: May-Sep Statistical Basis: None specified
- 58 [LAC 33:III.2201.I.2] Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d.
- 59 [LAC 33:III.2201.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT 0026 61 - Firewater Pump # 3

- 60 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant
Activity Number: PER20090001
Permit Number: 0180-00029-V9
Air - Title V Regular Permit Minor Mod

EQT 0026 61 - Firewater Pump # 3

61 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

EQT 0027 62 - Firewater Pump #5

62 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified

63 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

EQT 0028 66 - Methanol Storage Tank

64 [LAC 33:III.2103.A] Equip with a submerged fill pipe.

EQT 0029 67 - DAC Storage Tank (FB-802B)

65 [40 CFR 60.112b(a)(2)(ii)] Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]

66 [40 CFR 60.112b(a)(2)] Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]

SPECIFIC REQUIREMENTS**AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant****Activity Number: PER20090001****Permit Number: 0180-00029-V9****Air - Title V Regular Permit Minor Mod****EQT 0029 67 - DAC Storage Tank (FB-802B)**

- 67 [40 CFR 60.113b(b)(1)(i)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 68 [40 CFR 60.113b(b)(1)(ii)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]
Which Months: All Year Statistical Basis: None specified
- 69 [40 CFR 60.113b(b)(3)] Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- 70 [40 CFR 60.113b(b)(4)(i)(A)] One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
- 71 [40 CFR 60.113b(b)(4)(i)(B)] There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 72 [40 CFR 60.113b(b)(4)(i)] Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
Which Months: All Year Statistical Basis: None specified
- 73 [40 CFR 60.113b(b)(4)(i)] Seal gap width $\leq 3.81 \text{ cm}$ for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- 74 [40 CFR 60.113b(b)(4)(ii)(A)] Which Months: All Year Statistical Basis: None specified
Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
- 75 [40 CFR 60.113b(b)(4)(ii)(B)] Seal gap area $\leq 21.2 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 76 [40 CFR 60.113b(b)(4)(ii)(B)] Seal gap width $\leq 1.27 \text{ cm}$ for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- 77 [40 CFR 60.113b(b)(4)(ii)(C)] Which Months: All Year Statistical Basis: None specified
There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 78 [40 CFR 60.113b(b)(4)] Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- 79 [40 CFR 60.113b(b)(5)] Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- 80 [40 CFR 60.113b(b)(6)(i)] If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]

SPECIFIC REQUIREMENTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant

Activity Number: PER20090001

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EQT 0029 67 - DAC Storage Tank (FB-802B)

- 81 [40 CFR 60.113b(b)(6)(ii)] Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(b)(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
- 82 [40 CFR 60.113b(b)(6)] Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]
Which Months: All Year Statistical Basis: None specified
- 83 [40 CFR 60.115b(b)(2)] Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2); and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]
- 84 [40 CFR 60.115b(b)(3)] Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- 85 [40 CFR 60.115b(b)(4)] Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 86 [40 CFR 60.116b(b)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
- 87 [40 CFR 60.116b(c)] VOL storage data recordkeeping by electronic or hard copy at the approved frequency. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]
- 88 [LAC 33:III.2103.D] Equip tank with an external floating roof in accordance with the positions of LAC 33:III.2103.D.

EQT 0030 68 - Firewater Pump # 6

- 89 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: None specified
- 90 [LAC 33:III.1311.C] Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AJ ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

EQT 0031 69 - Firewater Pump# 7

91 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

92 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0033 80 - DAC Storage Tank (FB-802A)

93 [LAC 33:III.2103.B]

Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.

94 [LAC 33:III.2103.D]

Equip tank with an external floating roof in accordance with the positions of LAC 33:III.2103.D.

EQT 0034 91 - Emergency Generator Engine

95 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

96 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0035 93 - Emergency Generator Engine

97 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

98 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0036 94 - Emergency Generator Engine

SPECIFIC REQUIREMENTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant
Activity Number: PER20090001
Permit Number: 0180-00029-V9
Air - Title V Regular Permit Minor Mod

EQT 0036 94 - Emergency Generator Engine

- 99 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
- 100 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

EQT 0038 97 - Wastewater/DAC Storage Tank (FB-812B)

- 101 [40 CFR 60.112b(a)(2)(ii)] Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrance fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
- 102 [40 CFR 60.112b(a)(2)] Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
- 103 [40 CFR 60.113b(b)(1)(i)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]
 Which Months: All Year Statistical Basis: None specified
- 104 [40 CFR 60.113b(b)(1)(ii)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]
 Which Months: All Year Statistical Basis: None specified
- 105 [40 CFR 60.113b(b)(3)] Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]

SPECIFIC REQUIREMENTS

AI ID: 5565 - Williams Olefins LLC - Gelsimar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

EQT 0038 97 - Wastewater/DAC Storage Tank (FB-812B)

- 106 [40 CFR 60.113b(b)(4)(i)(A)] One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
- 107 [40 CFR 60.113b(b)(4)(i)(B)] There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 108 [40 CFR 60.113b(b)(4)(i)] Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- 109 [40 CFR 60.113b(b)(4)(i)] Which Months: All Year Statistical Basis: None specified
Seal gap width $\leq 3.81 \text{ cm}$ for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- 110 [40 CFR 60.113b(b)(4)(ii)(A)] Which Months: All Year Statistical Basis: None specified
Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
- 111 [40 CFR 60.113b(b)(4)(ii)(B)] Seal gap width $\leq 1.27 \text{ cm}$ for the width of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- 112 [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified
Seal gap area $\leq 21.2 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- 113 [40 CFR 60.113b(b)(4)(ii)(C)] Which Months: All Year Statistical Basis: None specified
There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 114 [40 CFR 60.113b(b)(4)] Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- 115 [40 CFR 60.113b(b)(5)] Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- 116 [40 CFR 60.113b(b)(6)(i)] If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- 117 [40 CFR 60.113b(b)(6)(ii)] Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
- 118 [40 CFR 60.113b(b)(6)] Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]
- 119 [40 CFR 60.115b(b)(2)] Which Months: All Year Statistical Basis: None specified
Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]

SPECIFIC REQUIREMENTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

EQT 0038 97 - Wastewater/DAC Storage Tank (FB-812B)

- 120 [40 CFR 60.115b(b)(3)] Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- 121 [40 CFR 60.115b(b)(4)] Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 122 [40 CFR 60.116b(b)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
- 123 [40 CFR 60.116b(c)] VOL storage data recordkeeping by electronic or hard copy at the approved frequency. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]
- 124 [LAC 33:III.2103.B] Equip with a submerged fill pipe.

EQT 0040 11 - Olefins Utility Boiler F

- 125 [40 CFR 60.44b] Nitrogen oxides < 0.20 lb/MMBTU (43 ng/J) heat input (expressed as NO₂), except as provided in 40 CFR 60.44b(k). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db.
- 126 [40 CFR 60.46b(e)(4)] Which Months: All Year Statistical Basis: Thirty-day rolling average
To determine compliance with the emission limits for nitrogen oxides required under 60.44b, the owner or operator of an affected facility shall conduct performance test as required under 40 CFR 60.8 using the continuous system for monitoring NOx under 40 CFR 60.48b. Following the date on which the initial performance test is completed or required to be completed under 40 CFR 60.8, whichever date comes first, the owner or operator of an affected facility that has a heat input capacity of 73 MW (250 MM/BTU/hr) or less and that combusts natural gas, distillate oil, or residual oil having a nitrogen content of 0.30 weight percent or less shall upon request determine compliance with the NOx standards under 60.44b through the use of a 30-day performance test. During periods when performance tests are not requested, NOx emissions data collected pursuant to 40 CFR 60.48b(g)(1) or 40 CFR 60.48b(g)(2) are used to calculate a 30 -day rolling average emission rate on a daily basis and used to prepare excess emission reports, but will not be used to determine compliance with the NOx emission standards. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NOx emission data for the preceding 30 steam generating unit operating days. [40 CFR 60.46b(e)(4)]
- 127 [40 CFR 60.49b(g)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(6) for each steam generating unit operating day. Subpart Db. [40 CFR 60.49b(g)]
- 128 [40 CFR 60.49b(g)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(6) for each steam generating unit operating day. Subpart Db. [40 CFR 60.49b(g)]

SPECIFIC REQUIREMENTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant
Activity Number: PER20090001
Permit Number: 0180-00029-V9
Air - Title V Regular Permit Minor Mod

EQT 0040 11 - Olefins Utility Boiler F

- 129 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Nitrogen oxides < 0.1125 lb/MMBTU.
 Which Months: May-Sep Statistical Basis: Thirty-day rolling average
 Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
 Which Months: May-Sep Statistical Basis: None specified
 Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.
- 130 [LAC 33:III.1313.C]
- 131 [LAC 33:III.2201.D.1]
- 132 [LAC 33:III.2201.H.1.a.i]
- 133 [LAC 33:III.2201.I.2]
- 134 [LAC 33:III.2201.J]

EQT 0041 71A - Air Compressor # 1 Engine

- 135 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
- 136 [LAC 33:III.1311.C]

EQT 0042 71B - Water Pump # 1 Engine

- 137 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
- 138 [LAC 33:III.1311.C]

EQT 0043 71C - Water Pump #2 Engine

SPECIFIC REQUIREMENTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

EQT 0043 71C - Water Pump #2 Engine

139 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

140 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0044 71D - Welder # 1 Engine

141 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

142 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0045 71E - Welder # 2 Engine

143 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

144 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0046 71F - Welder #3 Engine

145 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

146 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant
Activity Number: PER20090001
Permit Number: 0180-00029-V9
Air - Title V Regular Permit Minor Mod

EQT 0047 71G - Welder #4 Engine

147 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

148 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0048 71H - Welder # 5 Engine

149 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

150 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0049 71J - Welder #6 Engine

151 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

152 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

FUG 0001 2 - Olefins Plant Fugitive Emissions

153 [40 CFR 60.486(i)]

Equipment/operational data recordkeeping by logbook at the approved frequency. Record and keep the specified information in a readily accessible location for use in determining exemptions as provided in 40 CFR 60.480(d). Subpart VV. [40 CFR 60.486(i)]

154 [40 CFR 61.110]

Maintain records as specified in 40 CFR 61.246(i). Subpart J.

155 [40 CFR 61.246(i)]

Equipment/operational data recordkeeping by logbook at the regulation's specified frequency. Record an analysis demonstrating the design capacity of the process unit, and an analysis demonstrating that the equipment is not in VHAP service. Keep records in a readily accessible location for use in determining exemptions as provided in 40 CFR 61.240. Subpart V. [40 CFR 61.246(i)]

SPECIFIC REQUIREMENTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant
Activity Number: PER20090001
Permit Number: 0180-00029-V9
Air - Title V Regular Permit Minor Mod

FUG 0001 2 - Olefins Plant Fugitive Emissions

156 [LAC 33:III.501 C.6]

Permittee shall comply with a streamlined equipment leaks monitoring program. Compliance with the streamlined program in accordance with the specific condition shall serve to comply with each of the fugitive emission monitoring programs being streamlined, as indicated in the following table. Noncompliance with the streamlined program in accordance with the specific condition may subject the permittee to enforcement action for one or more of the fugitive emissions program being streamlined.

- a. Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (LAC 33:III.2122) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemption based on size of component available in any of the programs being streamlined.
- b. Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Annual monitoring shall be defined as once every four quarters.
- c. Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on September 30 and March 31, to cover the periods January 1 through June 30 and July 1 through December 31, respectively. The semiannual reports shall include any monitoring performed within the reporting period.

Unit or Plant Site Program Being Streamlined Stream Applicability Overall Most Stringent Program

Geismar Ethylene Plant	NESHAP Subpart J	10% VOHAP	LAC 33:III.2122
	NESHAP Subpart V	10% VOHAP	
	NSPS Subpart VV	10% VOC	
	LAC 33:III.2122	10% VOC	

SPECIFIC REQUIREMENTS

AJ ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant
Activity Number: PER20090001
Permit Number: 0180-00029-V9
Air - Title V Regular Permit Minor Mod

FUG 0001 2 - Olefins Plant Fugitive Emissions

157 [LAC 33:III.501.C.6]

Fugitive emission piping components may be added to or removed from the permitted facility without triggering the need to apply for a permit modification provided all of the following are adhered to:

- a) Changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increase except from the fugitive emission components themselves;
- b) Changes do not involve any associated increase in production rate or capacity, or tie in of new or modified process equipment other than the piping components;
- c) Actual emissions following the changes will be insignificant activities and will not exceed the emission limits contained in the permit;
- d) The components are promptly incorporated into any applicable leak detection and repair program.

GRP 0004 CAP1 - Boilers (CAP 1)

Group Members: EQT 0006EQT 0009EQT 0021EQT 0023EQT 0040

158 [LAC 33:III.501.C.6]

This permit is issued under the following condition:

The permittee shall comply with all applicable federally enforceable requirements listed in the attached tables. Failure to comply with any of the federal applicable requirements or compliance monitoring devices, activities, or methods listed in Tables 1, 2, 3, 4, and 5 will represent a violation of this permit.

To maintain NOx emission increases from prior facility modifications below the significance level of 40 tons/year, total heat input to Boilers A, B, D, and E, Emission Points 45A, 45B, 4, and 8, shall be limited to no more than 4,600 billion BTU/yr.

The total heat input to these boilers shall be recorded each month, as well as the total heat input to these boilers for the last twelve months. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Heat input above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of the permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the monthly heat input to the boilers and heaters and the 12-month totals which end in the preceding six month calendar period shall be submitted to the Office of Environmental Compliance, Enforcement Division semiannually in accordance with Part 70 General Conditions.

GRP 0005 CAP2 - Cracking Heaters (CAP 2)

Group Members: EQT 0010EQT 0012EQT 0013EQT 0014EQT 0015EQT 0016EQT 0017EQT 0018EQT 0019

159 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or rapping, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

160 [LAC 33:III.1313.C]

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant
Activity Number: PER20090001
Permit Number: 0180-00029-V9
Air - Title V Regular Permit Minor Mod

GRP 0005 CAP2 - Cracking Heaters (CAP 2)

161 [LAC 33:III.501.C.6]

This permit is issued under the following condition:

The permittee shall comply with all applicable federally enforceable requirements listed in the attached tables. Failure to comply with any of the federal applicable requirements or compliance monitoring devices, activities, or methods listed in Tables 1, 2, 3, 4, and 5 will represent a violation of this permit.

To maintain NOx emission increases from prior facility modifications below the significance level of 40 tons/year, total heat input to nine cracking heaters: Emission Points 33A, 33B, 34A, 34B, 35A, 35B, 36A, 36B, and 41., shall be limited to no more than 9,800 billion BTU/yr. The total heat input to these heaters shall be recorded each month, as well as the total heat input to these heaters for the last twelve months. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Heat input above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of the permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the monthly heat input to the heaters and the 12-month totals which end in the preceding six month calendar period shall be submitted to the Office of Environmental Compliance, Enforcement Division semiannually in accordance with Part 70 General Conditions.

GRP 0006 GRP0006 - Alternative NOx Control Averaging Group

Group Members: EOT 0007EQT 0008EQT 0010EQT 0011EQT 0013EQT 0014EQT 0015EQT 0016EQT 0017EQT 0018

162 [LAC 33:III.2201.H 2.a.i]

Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.

Which Merits: May-Sep Statistical Basis: None specified

163 [LAC 33:III.2201.I.2]

Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d.

164 [LAC 33:III.2201.I]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

165 [LAC 33:III.2201]

This permit is issued with the following condition:

Permittee shall comply with LAC 33:III.2201 in accordance with the NOx Control Plan submitted on April 20, 2005 and any subsequent revisions approved by the Department of Environmental Quality. Implementation of the approved Plan includes the following elements:

- a. Permittee shall utilize an Alternative Averaging Plan for a group of ten cracking heaters consisting of Emission Points 5, 6, 33A, 33B, 34A, 34B, 35A, 35B, 36A, and 36B. The averaging group NOx emission factor shall be limited to no more than 0.09 pounds NOx/million BTU on a 30-day rolling average basis.
- b. Permittee shall calculate and record the averaging group NOx emission factor each month by use of Equation E-3. Records of these monthly determinations shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- c. Permittee may utilize a single totalizing fuel meter to continuously measure fuel usage to a group of nine similar cracking heaters. BA-101 through BA-109.

d. Permittee shall utilize a test method that conforms to ASTM Method D 1945-96 to measure the Hydrogen content of the plant fuel gas at concentrations that are greater than the nominal range listed in this method.

SPECIFIC REQUIREMENTS

AI ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

GRP 0007 CAP3 - Small Diesel Engines (CAP3)

Group Members: EQT 0041EQT 0042EQT 0044EQT 0045EQT 0046EQT 0047EQT 0048EQT 0049

166 [LAC 33:III.501.C.6]

This permit is issued under the following condition:

The permittee shall comply with all applicable federally enforceable requirements listed in the attached tables. Failure to comply with any of the federal applicable requirements or compliance monitoring devices, activities, or methods listed in Tables 1, 2, 3, 4, and 5 will represent a violation of this permit.

The total heat input to nine diesel engines, Emission Points 71A, 71B, 71C, 71D, 71E, 71F, 71G, 71H, and 71J, shall be limited to no more than 4000 MMBTU/yr.

The total heat input to these engines shall be recorded each month, as well as the total heat input to these engines for the last twelve months. These records shall be kept on site and available for inspection by the Office of Environmental Surveillance Division. Heat input above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of the permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

UNF 0001 Facility - Geismar Ethylene Plant

167 [40 CFR 60.]

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.

168 [40 CFR 61.342(c)]

Manage and treat the facility benzene containing waste streams in accordance with the provisions of 40 CFR 61.342(c) except the wastes treated onsite pursuant to 40 CFR 61.342(f). Subpart FF. [40 CFR 61.342(c)]. [40 CFR 61.342(c)]

169 [40 CFR 61.348(a)(1)(i)]

Monitor treated wastewater benzene concentration. Measure the benzene concentration of the waste stream existing the treatment process complying with 40 CFR 61.348(a)(1)(i) at least once per month. Subpart FF, [40 CFR 61.348(a)(1)(i)]. [40 CFR 61.348(a)(1)(i)]

170 [40 CFR 61.354(a)(1)]

Monitor treated wastewater benzene concentration. Measure the benzene concentration of the waste stream exiting the treatment process complying with 40 CFR 61.348(a)(1)(i) at least once per month. Subpart FF, [40 CFR 61.354(a)(1)]. [40 CFR 61.354(a)(1)]

171 [40 CFR 61.357(d)(7)]

Submit compliance report: Due by January 31, April 30, July 31 and October 31 for the preceding calendar quarters. Report the information specified in 40 CFR 61.357(d)(7) and certify completion of all required inspections per 40 CFR 61.357(d)(6). Subpart FF. [40 CFR 61.357(d)(7)]

172 [40 CFR 61.357(d)(8)]

Submit annual TAB report: Due by April 7 for the proceeding year. Report Total Annual Benzene information as specified in 40 CFR 61.357(a)(1), (a)(3) and (d)(3), and inspection information specified in (d)(8). Subpart FF, [40 CFR 61.357(d)(2)]. [40 CFR 61.357(d)(8)]

173 [40 CFR 61.]

All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.

174 [40 CFR 82.Subpart F]

Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82. Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.

175 [LAC 33:III.1103]

Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.

176 [LAC 33:III.1109.B]

Outdoor burning of waste material or other combustible material is prohibited.

177 [LAC 33:III.1303.B]

Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.

SPECIFIC REQUIREMENTS

AJ ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

UNF 0001 Facility - Geismar Ethylene Plant

- 178 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 179 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 180 [LAC 33:III.501.C.6] Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include Ethylene and Propylene (State Only).
- 181 [LAC 33:III.5105.A.1] Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
- 182 [LAC 33:III.5105.A.3] Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 183 [LAC 33:III.5105.A.4] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- 184 [LAC 33:III.5113.B.1] Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel.
- 185 [LAC 33:III.5113.B.3] Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department.
- 186 [LAC 33:III.5113.B.4] Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e.
- 187 [LAC 33:III.5113.B.5] Submit certified letter: Due to the Office of Environmental Assessment before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test.
- 188 [LAC 33:III.5113.B.5] Analyze samples and determine emissions within 30 days after each emission test has been completed.
- 189 [LAC 33:III.5113.B.6] Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ.
- 190 [LAC 33:III.5113.B.7] Submit notification: Due to the Office of Environmental Assessment at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test.
- 191 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611, Table 7 when the administrative authority declares an Air Pollution Emergency.
- 192 [LAC 33:III.5609.A] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
- 193 [LAC 33:III.5901.A] Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611, Tables 5, 6, and 7.
- 194 [LAC 33:III.5907] Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.

SPECIFIC REQUIREMENTS

AJ ID: 5565 - Williams Olefins LLC - Geismar Ethylene Plant

Activity Number: PER20090001

Permit Number: 0180-00029-V9

Air - Title V Regular Permit Minor Mod

UNF 0001 Facility - Geismar Ethylene Plant

195 [LAC 33:III.919.D]

Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.